

Sound Insulation Prediction (v8.0.1)

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- Key No. 2016

Margin of error is generally within $R_w \pm 3$ dB

Job Name:

Job No.:

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Notes:

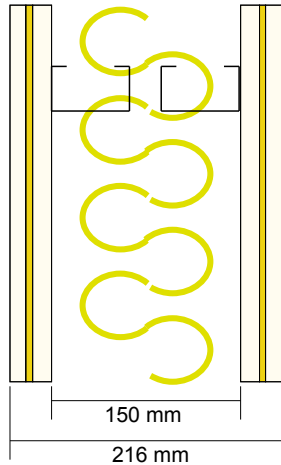
Date: 1 feb 18

Initials:Proprietario

File Name: Tramezzo Doppio Flat Barrier.ixl



ACOUSTICS & CO.



R_w	77 dB
C	-4 dB
C_{tr}	-12 dB
D_{nTw}	79 dB <small>[V:50m3] [A:11m2]</small>

System description

Panel 1: 1 x 13,0 mm mm Plasterboard (? :710 kg/m³,E:2GPa,?:0,01)
+ 1 x 15,0 mm mm Plasterboard (? :710 kg/m³,E:2GPa,?:0,01)

+ 1 x 5,0 mm Flat Barrier 10 (? :2000 kg/m³,E:0,001GPa,?:0,30)

Cavity: Double steel stud ,Stud spacing 600 mm , Infill Lana de Roca (60kg) Thickness 100 mm (? :60 kg/m³, Rf:22000 Pa.s/m²)

Panel 2: 1 x 15,0 mm mm Plasterboard (? :710 kg/m³,E:2GPa,?:0,01)
+ 1 x 13,0 mm mm Plasterboard (? :710 kg/m³,E:2GPa,?:0,01)

+ 1 x 5,0 mm Flat Barrier 10 (? :2000 kg/m³,E:0,001GPa,?:0,30)

Mass-air-mass resonant frequency =34 Hz

Panel Size 2,7x4 m

frequency (Hz)	R(dB)	R(dB)
50	25	
63	33	29
80	40	
100	47	
125	53	50
160	59	
200	64	
250	69	67
315	75	
400	79	
500	83	82
630	86	
800	89	
1000	92	92
1250	96	
1600	98	
2000	101	100
2500	102	
3150	103	
4000	108	106
5000	114	

